

## PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2000-357763

(43)Date of publication of application : 26.12.2000

(51)Int.Cl.

H01L 23/12

H01P 3/02

H01P 5/08

(21)Application number : 2000-024290

(71)Applicant : NEC CORP

(22)Date of filing : 01.02.2000

(72)Inventor : MARUHASHI KENICHI  
ITO MASAHARU  
OHATA KEIICHI

(30)Priority

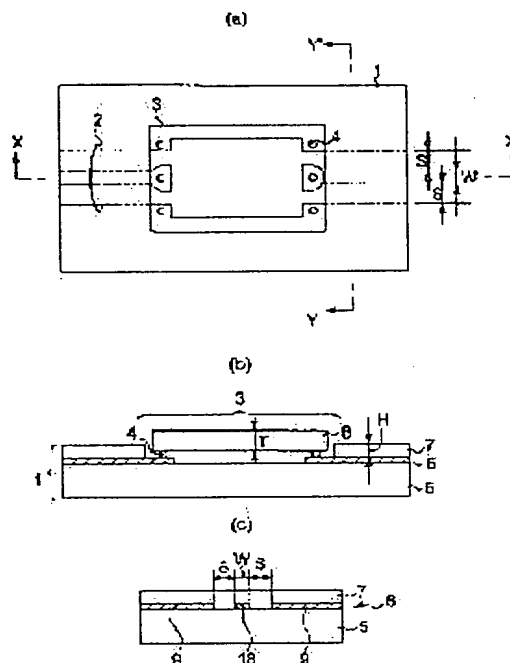
Priority number : 11105835 Priority date : 13.04.1999 Priority country : JP

## (54) HIGH-FREQUENCY CIRCUIT BOARD

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a high-frequency circuit board which relaxes the size of a minimum line width/an interval required by a coplanar line at a small distance to a ground, which is low-cost and whose yield is high in the high-frequency circuit board on which the coplanar line is formed.

SOLUTION: In this high-frequency circuit board 1, a first dielectric layer 5, a conductor layer 6 and a second dielectric layer 7 are laminated in this order and are formed. A coplanar line 2 is formed on the conductor layer 6. A region, in which a semiconductor element 8 is mounted out of the second dielectric layer 7, is partially removed, and an opening part 3 is formed. In the opening part 3, the coplanar line 2 is partially exposed, and bumps 4 are formed. The semiconductor element 8 is connected via the bumps 4 to the coplanar line, which is formed on the conductor layer 6. A thickness H of the second dielectric layer is smaller than a thickness T of the semiconductor element 8.



## LEGAL STATUS

[Date of request for examination] 01.02.2000

[Date of sending the examiner's decision of rejection] 08.10.2002

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

BEST AVAILABLE COPY

[Patent number] 3409767  
[Date of registration] 20.03.2003  
[Number of appeal against examiner's decision of 2002-21592  
rejection]  
[Date of requesting appeal against examiner's 07.11.2002  
decision of rejection]  
[Date of extinction of right]

Copyright (C); 1998,2003 Japan Patent Office

**BEST AVAILABLE COPY**